

Title (en)
BIORESORABLE FIXATION NAIL

Title (de)
BIOLOGISCH RESORBIERBARER FIXIERUNGSNAGEL

Title (fr)
CLOU DE FIXATION BIOLOGIQUEMENT RÉSORBABLE

Publication
EP 3380027 B1 20210616 (DE)

Application
EP 16805339 A 20161123

Priority
• DE 102015120514 A 20151126
• EP 2016078531 W 20161123

Abstract (en)
[origin: WO2017089381A1] The invention relates to a fixation nail for temporarily securing transplantable tissue, bone parts, and bone replacement substances using a cover or for securing natural or artificial bone replacement parts to bones. The fixation nail has a round flat nail head with a diameter of 0.50 to 6.0 mm, and the thickness of the nail head is 0.10 to 2.0 mm. The fixation nail has a nail pin which is formed with a sharp tip, and the pin has a length between 0.5 times to 2 times the diameter of the nail head and a thickness between 0.15 times to 0.5 times the diameter of the nail head. The fixation nail consists of a biocompatible, biocorrosable magnesium alloy which is composed of at least 90 wt.% metal magnesium and contains less than 0.1 wt.% aluminum, less than 0.1 wt.% copper, less than 0.1 wt.% iron, and less than 0.1 wt.% nickel as physiologically undesirable impurities.

IPC 8 full level
A61B 17/84 (2006.01); **A61B 17/064** (2006.01); **A61L 31/02** (2006.01); **A61L 31/14** (2006.01)

CPC (source: EP US)
A61B 17/0642 (2013.01 - EP US); **A61B 17/846** (2013.01 - EP US); **A61C 8/0028** (2013.01 - US); **A61F 2/30749** (2013.01 - US); **A61L 31/022** (2013.01 - EP US); **A61L 31/148** (2013.01 - EP US); **A61B 2017/00004** (2013.01 - EP US); **A61B 2017/00964** (2013.01 - US); **A61B 2017/0647** (2013.01 - EP US); **A61F 2002/30062** (2013.01 - US)

Citation (examination)
• DE 29513342 U1 19951116 - BIOVISION GMBH [DE]
• DE 19509966 A1 19960919 - SCHUETZ FRANK ULLRICH [DE]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2017089381 A1 20170601; BR 112018010652 A2 20181113; BR 112018010652 A8 20190226; CN 108882954 A 20181123; DE 102015120514 A1 20170601; EP 3380027 A1 20181003; EP 3380027 B1 20210616; JP 2019500085 A 20190110; US 2018325510 A1 20181115

DOCDB simple family (application)
EP 2016078531 W 20161123; BR 112018010652 A 20161123; CN 201680068606 A 20161123; DE 102015120514 A 20151126; EP 16805339 A 20161123; JP 2018526048 A 20161123; US 201615777131 A 20161123